

The listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Original): Use of a two-component composition which comprises

A) a polyol component, which contains one or several polyols and one or several aromatic amines and has a hydroxyl group concentration of 0.5 to 10 mol hydroxyl groups per kg of polyol component, and

B) a polyisocyanate component, which contains one or several aromatic polyisocyanates,

for the production of polyurethane gel coats for synthetic resin composite materials, wherein the synthetic resin comprises epoxy resin and/or vinyl ester resin and is not, or not completely, cured at the time when it is brought into contact with the gel coat.

Claim 2 (Currently Amended): Use according to claim 1, ~~characterized in that~~ wherein at 23°C the gel coat displays an elongation at break (measured as per DIN EN ISO 527) of at least 3%, preferably greater than 4%, in particular greater than 5%.

Claim 3 (Currently Amended): Use according to claim 1 ~~or 2~~, ~~characterized in that~~ wherein the polyurethane gel coat is not completely cured at the time when it is brought into contact with the synthetic resin, wherein the bringing into contact with the synthetic resin is preferably an application of synthetic resin onto the gel coat.

Claim 4 (Currently Amended): Use according to ~~one of the previous claims~~ claim 1, ~~characterized in that~~ wherein the synthetic resin used comprises one or several reinforcing materials.

Claim 5 (Currently Amended): Use according to claim 4, ~~characterized in that~~ wherein the reinforcing material is glass fibre fabric, glass fibre nonwoven, carbon fibre fabric and/or carbon fibre bonded fabric, wherein the synthetic resin used is especially preferably a prepreg or injection resin, in particular an injection resin or epoxy resin prepreg with glass fibre fabric and/or glass fibre nonwoven.

Claim 6 (Currently Amended): Use according to ~~one of the previous claims~~ claim 1, ~~characterized in that~~ wherein the polyol component comprises one or several polyether polyols.

Claim 7 (Currently Amended): Use according to ~~one of the previous claims claim 1~~, characterized in that wherein the polyol component contains:

- A1) one or several low molecular weight polyols with a molecular weight of 150 to 600 g/mol and a hydroxyl group concentration of 4 to 20 mol hydroxyl groups per kg of low molecular weight polyol and/or
- A2) one or several higher molecular weight polyols and
- A3) one or several aromatic amines.

Claim 8 (Currently Amended): Use according to ~~one of the previous claims claim 1~~, characterized in that wherein the aromatic amine, dissolved in toluene (20 wt. % amine in toluene), mixed at 23°C with an equimolar quantity of an oligomeric HDI isocyanate with an NCO content of about 5.2 mol/kg and a viscosity in the range from 2750 to 4250 mPas, dissolved in toluene (80 wt. % isocyanate in toluene) gives a gel time of more than 30 seconds, preferably more than 3 minutes, more preferably more than 5 minutes, in particular more than 20 minutes (determined as per E-DIN VDE 0291-2, 1997-06, section 9.2.1).

Claim 9 (Currently Amended): Use according to ~~one of the previous claims claim 1~~, characterized in that wherein the aromatic amine is a methylenebis(aniline), in particular a 4,4'-methylenebis(2,6-dialkylaniline)

Claim 10 (Currently Amended): Use according to claim 9, ~~characterized in that~~ wherein the aromatic amine is 4,4'-methylenebis-(3-chloro-2,6-diethylaniline).

Claim 11 (Currently Amended): Use according to ~~one of the previous claims~~ claim 1, ~~characterized in that~~ wherein the content of aromatic amine in the polyol component, based on the total mass of the polyol and aromatic amine, lies in the range from 0.1 to 20 wt.%, preferably 0.3 to 10 wt.%, more preferably 0.5 to 5 wt.%, and in particular 1 to 3 wt.%.

Claim 12 (Currently Amended): Use according to ~~one of claims 7 to 11~~ claim 7, ~~characterized in that~~ wherein the content of low molecular weight polyol in the polyol component, based on the total mass of polyol and aromatic amine, lies in the range from 2 to 70 wt.%.

Claim 13 (Currently Amended): Use according to claim 12, ~~characterized in that~~ wherein the content of low molecular weight polyol in the polyol component, based on the total mass of polyol and aromatic amine, lies in the range from 5 to 60 wt.%, preferably 10 to 50 wt.%, more preferably 20 to 45 wt.%, and in particular 35 to 45 wt.%.

Claim 14 (Currently Amended): Use according to ~~one claims 7 to 13~~, claim 7, ~~characterized in that~~ wherein the hydroxyl

group concentration of the low molecular weight polyol lies in the range from 4.5 to 15, more preferably in the range from 5 to 12 and in particular in the range from 6 to 10 mol hydroxyl groups per kg of low molecular weight polyol.

Claim 15 (Currently Amended): Use according to ~~one of claims 7 to 14~~ claim 7, characterized in that wherein the low molecular weight polyol is selected from straight-chain or branched polyester polyols, polyether polyols, such as polyether glycols, acrylate polyols and polyols based on dimeric fatty acids.

Claim 16 (Currently Amended): Use according to ~~one of claims 7 to 15~~ claim 7, characterized in that wherein the higher molecular weight polyol is selected from polyester polyols and polyether polyols, acrylate polyols and polyols based on dimeric fatty acids.

Claim 17 (Currently Amended): Use according to ~~one of claims 7 to 16~~ claim 7, characterized in that wherein the content of higher molecular weight polyol in the polyol component, based on the total mass of polyol and aromatic amine, lies in the range from 75 to 10 wt.%, preferably 65 to 10 wt.%, more preferably 50 to 12 wt.% and in particular 30 to 15 wt.%.

Claim 18 (Currently Amended): Use according to ~~one of the previous claims~~ claim 1, characterized in that wherein the

aromatic polyisocyanate is monomeric, oligomeric or polymeric polyisocyanate.

Claim 19 (Original): Process for the production of synthetic resin composite materials with polyurethane gel coats, which comprises

(i) the mixing of a two-component composition which comprises

A) a polyol component, which contains one or several polyols and one or several aromatic amines and has a hydroxyl group concentration of 0.5 to 10 mol hydroxyl groups per kg of polyol component, and

B) a polyisocyanate component which contains one or several aromatic polyisocyanates,

and at least partial curing of the mixture and

(ii) the bringing of the mixture into contact with synthetic resin, wherein the synthetic resin comprises epoxy resin and/or vinyl ester resin and is not, or not completely, cured at the time when it is brought into contact with the gel coat.

Claim 20 (Original): Synthetic resin composite material with polyurethane gel coat, producible by the process according to claim 19.

Claim 21 (Currently Amended): Composite material according to claim 20, ~~characterized in that~~ wherein it is a wind vane or a part thereof.